

I. Product and Company Identification

1.1 Identification of the substance or preparation:

OCS SODIUM CHLORITE 25%

1.2 Company Identification: Odour Control Systems Limited
33A Castle Close,
Hawarden Industrial Park
Manor Lane,
Hawarden,
Deeside.
CH5 3PP.
Tel: 01244 536700 Fax: 01244 535184

II. Composition/Information on Ingredients

2.1 Chemical Composition: Preparation of proprietary oxidising ingredients including Aqueous solution of stabilised buffered chlorine dioxide.

2.2 Risk Phrases: R8 Contact with combustible materials may cause fire.
R22 Harmful if swallowed.
R32 Contact with acids liberates toxic gas.

2.3 Classification/Symbol: O Oxidising
XN Harmful

III. Hazards Identification

3.1 Adverse Health Effects: Irritating to eyes.
Harmful if swallowed.

3.2 Environmental Effects: Toxic to aquatic organisms.

3.3 Physical & Chemical In contact with acids or when heated or under sunlight, may develop very toxic gas (chlorine dioxide) which may cause risk of explosion.
Contact with combustible materials (grease, fats, wood, cellulose, paper, etc) may cause fire.

MATERIAL SAFETY DATA SHEET

IV. First Aid Measures

- 4.1 Eye Contact: Immediately flush eyes with water for at least 15 minutes. Seek medical advice if symptoms persist
- 4.2 Skin contact: Remove contaminated clothing and wash affected areas with soap & water. Soak contaminated clothing with water. Seek medical attention if irritation persists.
- 4.3 Inhalation: Remove to fresh air. Seek medical attention. (If the patient is affected by chlorine dioxide, this is very toxic and requires urgent medical attention).
- 4.4 Ingestion: Rinse mouth with water and give water or milk to drink. Seek urgent medical attention.
- 4.5 Immediate Medical Advice: Treat symptoms. Risk of pulmonary oedema.

V. Fire Fighting Measures

- 5.1 Special Fire/Explosion Hazard: May decompose in fire producing toxic chlorine compounds. Strong oxidising agent - will assist combustion.
- 5.2 Products of Combustion: Not combustible. Toxic chlorine compounds maybe released in fire.
- 5.3 Fire Fighting Procedures Extinguishing Media: Wear S.C.B.A. for chlorine/chlorine dioxide. Keep containers cool with water spray. Avoid dispersion in the water courses. Do not use carbon dioxide or organic material. In case of spreading, avoid drying by dilution with plenty of water.

VI. Accidental Release Measures

- 6.1 Personal Protection: Wear goggles, plastic gloves (not rubber) and boots. Eyewash facilities should be available.
- 6.2 Environmental Precautions: Do not allow to dry. If possible, drench with water. Contain with inert material. Pump into a suitable container or otherwise absorb with non combustible materials. If substance has entered a water course or sewer advise relevant local authorities.
- 6.3 Methods of Cleaning Up: Flush away any residues with excess water. Spillages greater than 25 litres should be decontaminated with sodium sulphite solution with a contact time of at least 10 minutes before flushing.

MATERIAL SAFETY DATA SHEET

VII. Handling and Storage

- 7.1 Precautions During Handling:
Technical Measures: Ventilation of the place, local exhaust of vapours (in case of product decomposition).
- Precautions: Avoid contact with eyes and skin and breathing of any activated chlorine dioxide vapours.
Wear personal protective equipment, maintain eye washer/shower facilities and source of running water in the vicinity.
- Safe Handling Advice: Handle product with care and avoid contamination.
- 7.2 Precautions During Storage:
Storage Conditions: Store in a cool, clean, well ventilated area.
Do not store on wooden surfaces or flammable pallets.
Keep away from incompatible (especially acids) and combustible materials, from direct sunlight and heating sources.
Provide water facilities, do not allow spilt product dry.
- 7.3 Packaging Materials: Do not use common steel, aluminium, copper and its alloys or rubber.
Use stainless steel, glass, ceramics, polyethylene, PVC.

VIII. Exposure Controls/Personal Protection

- 8.1 Special Protective Measures
Respiratory: Under normal conditions of use / handling no respiratory protection is required. Should chlorine dioxide gas be released, ensure working room air concentrations are less than 0.1 ppm chlorine dioxide gas S.C.B.A. when chlorine dioxide gas is evolved.
- Hand: Wear plastic gloves.
Eye: Wear goggles.
Skin: Work suit, preferably made of PVC, Neoprene, nitrile rubber.
Avoid leather, cotton or natural rubber due to fire risk.
- 8.2 Exposure Limits: For chlorine dioxide gas:
0.1ppm (0.3mg/cu.m)
0.3ppm (0.9mg/cu.m) STEL

IX. Physical and Chemical Properties

- 9.1 Physical State: Liquid.
- 9.2 Temperature Characteristics: Freezing point: - 10°C
- 9.3 Solubility:
In Water: Completely miscible.
In Solvents: Not soluble.
- 9.4 Flammability: Not combustible

MATERIAL SAFETY DATA SHEET

X. Stability and Reactivity

- 10.1 Stability: Minimum 6 months in unopened containers.
- 10.2 Conditions/Materials to Avoid: Avoid exposure to direct sunlight and heat.
Decomposed by acids and organic matter.
- 10.3 Decomposition Temperature and Dangerous Products Released: At very high temperatures i.e. greater than 100°C, it may decompose to produce chlorine dioxide gas which can cause overpressure and burst in confined spaces. Toxic chlorine dioxide gas may then be released.

XI. Toxicological Information

- 11.1 Acute Toxicity: LD50 orl.rat (by feeding-m/f): >4000 mg/kg.
LD50 dermal.rbt: => 5000 mg/kg.
- 11.2 Local Effects: Skin contact: Not irritating (patch test, rabbit, 4h)
Eyes: Irritant to eyes (Draiza test rabbit).
- 11.3 Long Term Toxicity: Carcinogenicity: No carcinogenic potential.
Teratogenicity: No teratogenic potential.

XII. Biological Information

- 12.1 Mobility: Will disperse through aqueous systems.
- 12.2 Persistence and Degradability: Will degrade.
- 12.3 Bioaccumulative Potential: Not known.

XIII. Disposal Considerations

- 13.1 Disposal of product: Disposal of through approved waste disposals operative.
- 13.2 Disposal of packaging: Rinse empty containers thoroughly before disposal.

XIV. Transport Information

- 14.1 UN No: 1908
- 14.2 UK Road:
Hazchem Code: 2X (additional advice A)
Classification: Corrosive substance, Class 8.
Packing Group: II.
- 14.3 Spillage: Larger than 25 litres, decontaminate with sodium sulphite solution with a contact time of least 10 minutes, then dilute with water & flush to foul drain.

MATERIAL SAFETY DATA SHEET

XV. Regulatory Information

15.1 The chemicals (Hazard Information and Packaging for Supply) Regulations 1994:

Index No :	Not Listed
Risk Phrases :	R8 Contact with combustible materials may cause fire R22 Harmful if swallowed R32 Contact with acids liberates very toxic gas
Safety phrases:	S14 Keep away from acids S17 Keep away from combustible materials S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 Wear suitable protective clothing, gloves and eye/face protection. /37
Classifications Symbols:	O Oxidiser Xn Harmful

XVI. Other Information

16.1 Recommended uses: Industrial Odour Control Compound

This information is given in good faith and is based on information and tests believed to be reliable. The suitability of this product for any particular use is not suggested or implied. This document is not a specification and properties shown are not guaranteed.

Information on this form is furnished in compliance with current legislation. It is the responsibility of the recipient to pass on this information to relevant departments/persons involved. Odour Control Systems Limited assumes no responsibility for injury of death and/or third persons, however caused. The user bailee and their respective employees and agents assume all such risks if reasonable safety procedures are not adhered to.

In addition, Odour Control Systems Limited assumes no responsibility for injury or death to the recipient of this material or third persons, or for any loss or damage to property, or for any consequential damage resulting from any abnormal use or theft of the material, and the user, owner, bailee and their respective employees and agents assume all such risks even when caused by negligence, omission, default or error in judgement of Odour Control Systems Limited or its agents.

Each recipient should carefully review this information, data and recommendations in this specific context of its intended use. This product should only be used according to the specific guidelines for use laid out in Odour Control Systems Limited publications. Use of these products is deemed to be acceptance of the above.

Always READ material safety data sheet before use.

preserving the environment

Odor Control Systems Ltd
33a Castle Close, Manor Lane
Hawarden Industrial Park
Hawarden, Flintshire CH5 3QX

Phone: +44 (0)1244 536700
Fax: +44 (0)1244 535184
E-mail: mail@odourcontrolsystems.ltd.uk
Web: www.odourcontrolsystems.ltd.uk



Certificate No. 7174

